



Borough of Cleethorpes.

ANNUAL REPORT
UPON THE
Health and
Sanitary Conditions
FOR THE YEAR 1938.

G. HOLROYD,

M.R.C.S., ENG., L.R.C.P., LOND., D.P.H., LOND.,

Medical Officer of Health.



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Health Committee Members, 1937-8.

Chairman : Ald. E. Houghton, J.P. (Mayor).

Vice-Chairman: Coun. W. F. George.

Coun. A. W. Cox.

Coun. B. W. Wells.

Ald. R. E. Dove.

Ald. F. Rhodes.

Coun. J. Butcher.

Coun. W. Clark.

Coun. J. R. Penistan.

Coun. J. Harvey.

Staff of the Health Department.

Medical Officer of Health, G. Holroyd, M.R.C.S., Eng., L.R.C.P.,
 Lond., D.P.H., Lond.

Chief Sanitary Inspector : Herbert Brant, M.R.San.I., M.S.I.A.

Sanitary Inspector, No. 2. District, }
and Cleansing Superintendent, } Walter Ellis, C.R.S.I.

Assistant Sanitary Inspector : F. Rhodes, M.R.San.I., M.S.I.A.
(Resigned Nov. 1938).

Clerks : R. Groat, (A.R.San.I., Cert. S.I.B.) and W. Green.

The following Medical Officers and Nurses of the County Staff carried out work within the area of the Borough.

G. Holroyd, M.R.C.S., Eng., L.R.C.P., Lond., D.P.H., Lond.,
Tuberculosis and School Medical Officer.

A. C. Easterbrook, M.B., Ch.B., D.P.H. Ante Natal, Child
Welfare & V.D. Clinics.

F. E. Padgett, L.D.S., R.C.S. Dental Officer.

Miss M. H. Hinshelwood, L.D.S., R.F.P.S. Dental Surgeon.

Miss E. E. Jenkinson, S.R.N., Cert. C.M.B. Health Visitor.

Miss V. Walker, S.R.N. Health Visitor.

Miss C. Clarke, S.R.N., Cert. C. M. B. Health Visitor.

Miss Gilseman, Cert. C.M.B. Health Visitor.

Miss E. Smith, S.R.N., Cert. C.M.B. Health Visitor.

Mrs. J. Briggs Dental Nurse.

Miss M. Carew-Fisher Dental Nurse

Mrs. Schute Secretary.

HEALTH DEPARTMENT, CLEETHORPES.

August, 1939.

**To the Mayor, Aldermen and Councillors of the Borough
of Cleethorpes.**

GENTLEMEN,

I have the honour to submit my Annual Report on the Health and Sanitary Conditions of the Municipal Borough during the year 1938.

The year under review has been a very busy one for the Health Department. Much has been done and preparations have been made to continue to improve the conditions which may affect the health and comfort of the residents of Cleethorpes.

The vital statistics are satisfactory ; the Death Rate (10.48) is lower than that for towns of similar size. The Death Rate for the whole of England and Wales is 11.6.

The Birth Rate (15.00) continues to increase ; the Birth Rate for the whole of England and Wales is 15.10.

Deaths from Cancer show a decrease of five on the number of deaths which occurred in 1937 from this disease.

The incidence of Infectious Disease shows a slight increase, to the extent of five more cases than occurred last year. There has been no epidemic of Infectious Disease and it has been unnecessary to close any schools.

Notification of Infectious Disease by Medical Practitioners is efficient and prompt and has facilitated the work in the Health Department. The diagnostic and therapeutic facilities available at all times have been fully utilised and for this co-operation I wish to express my appreciation.

The demand for immunisation against Diphtheria is disappointing ; there is a large number of susceptible children and plans are being made to gain the co-operation of the parents in this matter.

The number of instances of "overcrowding" in the Borough has been reduced to four ; efforts are continuously maintained to eradicate these conditions.

To the Clerk and Medical Officer of Health of the Lindsey County Council, the Town Clerk and Borough Surveyer of Cleethorpes, and my Chief Sanitary Inspector, I tender my acknowledgements and thanks for the information they have supplied which is incorporated in this Report.

To Ald. E. Houghton. J.P., the Chairman, and to the Members of the Health Committee, I express my gratitude for the support and consideration accorded to me at all times.

I have the honour to be, Gentlemen,

Your obedient Servant,

G. HOLROYD,

SECTION A.
STATISTICS
AND
SOCIAL CONDITIONS.

SECTION A. Statistics and Social Conditions of the Area.

General Statistics.

Area of Borough in acres (above high water mark)	2250
Registrar-General's estimate of Resident population (mid-1938)	28,730
Number of inhabited houses (end of 1938)	7907
Rateable Value, 1st April, 1939	£150,774
Sum represented by a penny rate	£575/9/11

Social Conditions of the Area:—

The area is mainly residential and caters for the holiday trade in summer.

Unemployment.

A decrease in the number of persons in receipt of relief on account of unemployment, has been recorded; the figures are as follows:—

1. Average weekly number of persons in receipt of ordinary relief during the year ended 31st December, 1938 was 726
(as compared with 939 for the previous year)
2. Average weekly number of persons in receipt of relief on account of unemployment was ... 43
3. The total amount of relief granted in the Borough during the year ended 31st Dec., 1938, was ... £14,971

Vital Statistics.

		Total	Male	Female	
Live Births	Legitimate	412	212	200	Birth Rate per 1,000 of the estimated resident population ... 15.00
	Illegitimate	19	11	8	
Still Births	Legitimate	14	5	9	Rate per 1,000 total (live and still births) 31.46
	Illegitimate	Nil	Nil	Nil	

Death Rate per 1,000 of the estimated resident population ... 10.48

Death Rate per 1,000 for England and Wales 11.6

Deaths from Puerperal Causes (Headings 29 and 30 of the Registrar-General's Short List).

		Deaths	Rate per 1,000 (total live and still births.)
No. 29.	Puerperal Sepsis	Nil	Nil
No. 30.	Other Puerperal causes... ..	Nil	Nil
	Total	Nil	Nil

Death Rate of Infants under one year of age:—

All infants per 1,000 live births	55.68
Legitimate infants per 1,000 legitimate live births	53.40
Illegitimate infants per 1,000 illegitimate live births	105.26

Deaths from Cancer (all ages)	42
Deaths from Measles (all ages)	Nil
Deaths from Whooping Cough (all ages)	1
Deaths from Diarrhoea (under 2 years of age)	Nil

Additional statistics are appended following the suggestion of the Minister of Health regarding :-

1. Causes of Death in infants, 1938, with reference to age and Wards of District.

DISEASE.	TOTALS	North	Sidney	Central	Alexandra	South	Under 1 week	1 week to 1 month	Total under 1 month	1 month to 3 months	3 months to 6 months	6 months to 1 year
Convulsions	1				1		1		1			
Prematurity ...	7	3			2	2	6	1	7			
Anencephalic Monster ...	1				1		1		1			
Cardiac Failure ...	2				2		1	1	2			
Spina Bifida	1		1				1		1			
Atherosis ...	1				1		1		1			
Asphyxia ...	1	1					1		1			
Atalectasis	1	1						1	1			
Marasmus	1	1						1	1			
Acute Lobar Pneumonia ...	1				1							1
Capillary Bronchitis ...	1	1								1		
Shock	1			1						1		
Broncho Pneumonia	2		1	1							2	
Pyloric Stenosis ...	1	1								1		
Pneumococcal Meningitis ...	1			1							1	
Hydrocephalus ...	1			1								1
TOTALS	24	8	2	4	8	2	12	4	16	3	3	2

2. Deaths in Wards.

Wards.	Males	Females	Totals
North	26	27	53
Sidney	26	23	49
Central	31	33	64
Alexandra ...	39	28	67
South	33	35	68
TOTALS	155	146	301

3. Quarterly Death Rates in Wards.

	North Ward	Sidney Ward	Central Ward	Alex'dra Ward	South Ward
Population (approx.) ...	5262	4976	7433	4951	6108
First Quarter	14.44	11.25	4.84	16.96	9.10
Second Quarter ..	10.61	6.43	9.68	9.74	8.51
Third Quarter ...	7.60	8.04	11.30	9.74	12.44
Fourth Quarter ...	7.60	8.84	7.53	16.16	14.16

4. Causes of Death in Borough of Cleethorpes.

CAUSES OF DEATH.				1938	
				Males	Fem.
1 Typhoid and Paratyphoid Fever	—	—			
2 Measles	—	—			
3 Scarlet Fever	—	—			
4 Whooping Cough	—	1			
5 Diphtheria	—	1			
6 Influenza	1	—			
7 Encephalitis Lethargica	—	—			
8 Cerebro-Spinal Fever	—	—			
9 Tuberculosis of Respiratory System... ..	5	7			
10 Other Tuberculosis Diseases	1	2			
11 Syphilis	3	—			
12 General Paralysis of the Insane, Tabes Dorsalis	—	—			
13 Cancer, Malignant Disease	19	23			
14 Diabetes	1	5			
15 Cerebral Hæmorrhage, etc.	6	9			
16 Heart Disease	40	37			
17 Aneurysm	1	—			
18 Other Circulatory Diseases	6	11			
19 Bronchitis	5	2			
20 Pneumonia (all forms)	9	4			
21 Other Respiratory Diseases	—	1			
22 Peptic Ulcer	3	—			
23 Diarrhœa	—	—			
24 Appendicitis	2	—			
25 Cirrhosis of Liver	1	—			
26 Other Diseases of Liver	—	3			
27 Other Digestive Diseases	5	7			
28 Acute and Chronic Nephritis	1	5			
29 Puerperal Sepsis	—	—			
30 Other Puerperal Causes	—	—			
31 Congenital Debility, Premature Birth, Malformations, etc.	12	7			
32 Senility	13	9			
33 Suicide	2	1			
34 Other Violence	5	2			
35 Other Defined Diseases	12	9			
36 Causes ill-defined or unknown	2	—			
TOTALS				155	146

SECTION B.

GENERAL PROVISION
OF
HEALTH SERVICES.

Section B.—General Provision of Health Services of the Area.

1. Staff of the Health Department.

This is shewn at the beginning of the Report, page 5.

2. (a) Laboratory facilities.

These are available for the examination of throat and nose swabs, sputum, etc., at the Public Health Department, Council Offices, Cleethorpes, to which address all specimens should be sent.

(b) Ambulance facilities.

Removal by ambulance is an inclusive charge of the Infectious Disease Hospital receiving the case. Non-infectious and accident cases may be removed by the Borough Council's Ambulance, when a charge is made according to mileage. Ambulance facilities are adequate.

(c) Nursing at Home.

The Borough provide the services of a nurse for selected cases of Infectious Diseases (including Pneumonia) which for special reasons may be required to be nursed at home.

The Lindsey County Council provide the services of a nurse for cases of Ophthalmia Neonatorum to be nursed at home, when requested by General Practitioners.

(d) Clinics.

The Lindsey County Council from the Clinic, St. Hugh's Avenue, Cleethorpes, provide the following specialist and consultant services :

Clinics, St. Hugh's Avenue, Cleethorpes.

CLINIC.	DAY.	HOUR.
Tuberculosis	Wednesday	2 p.m.
School	Wednesday	9-30 a.m.
School Nurse attends	{ Monday, Wednesday and Thursday	9.30 a.m.
Eye	{ Tuesday and Friday	2 p.m.
Infant Welfare	Friday (by appointment)	10 a.m.
Ante Natal	Monday and Thursday	2-0 p.m.
Specialist (Female) Treatment	Tuesday	9-30 a.m.
Orthopædic	Thursday	10-30 a.m.
	4th Monday of month	
	by appointment	2-30 p.m.
Massage	Monday and Thursday	10-0 a.m.
U.V.R.	Monday and Thursday	10-0 a.m.
Dental	Daily	9-30 a.m.
Rheumatism & Heart	3rd Wednesday of Month	2-0 p.m.
	(by appointment)	

CLEETHORPES SCHOOL CLINICS.

A Clinic for minor ailments is conducted by your Medical Officer in his capacity of Assistant County School Medical Officer.

The total attendances at the Clinic were 2155 school children.

Seventy-one children attended the Tuberculosis Dispensary and the diagnosis of tuberculosis was confirmed in 44 of these.

Juvenile employment : Seventy-two certificates were granted.
Six certificates were refused.

I have to record my appreciation of the consultant services afforded by Mr. Rainforth, Oto-rhino-laryngologist, and Dr. J. W. Brown, Heart Specialist, Mr. Bilcliffe, Orthopædic Surgeon, and Dr. Davidson and Dr. Vivian, Ophthalmic Surgeons.

(e) Hospitals.

As from 1st April, 1936, the Corporation have utilised the Osgodby Hospital for Infectious Diseases, which Hospital is administered under a Joint Board on which the Corporation is represented. This provision is adequate for the present requirements of the Borough. An arrangement has been made with the Medical Officer of the County Borough of Grimsby for cases requiring urgent treatment to be admitted to the Grimsby Corporation Hospital, Scarthoe.

Cleethorpes Maternity Home, Mill Road, Cleethorpes.

By the courtesy of the County Medical Officer of Health the following report on this Home is given.

1.	Name and address of the Institution.	County Maternity Home, Cleethorpes, Lincs. Tel. 61461.
2.	Number of Maternity Beds in the Institution. (exclusive of isolation and labour beds)	16
3.	Number of maternity cases admitted during the year	259
4.	Average duration of stay	14½ days
5.	Number of cases delivered by	
	(a) Midwives	178
	(b) Doctors	58

6.	Number of cases in which medical assistance was sought by a midwife in emergency....	...	...	...	36
7.	Number of cases notified as				
	(a) puerperal fever	...	...	...	1
	(b) puerperal pyrexia	...	...	...	Nil
8.	Number of cases of pemphigus neonatorum	...	...	...	Nil
9.	Number of infants not entirely breast fed while in the Institution	...	...	...	25
10.	(a) Number of cases notified as ophthalmia neonatorum				2
	(b) Result of treatment in each case.			Satisfactory	
11.	(a) Number of maternal deaths	...	...	...	Nil
	(b) Cause of death in each case	...	...	...	Nil
12a.	Number of infant deaths :				
	(a) stillborn	...	...	...	6
	(b) within 10 days of birth	...	...	...	7
12b.	Cause of death in each case, and results of post-mortem examination (if obtainable) :				
	(i.) Stillborn.				
	1. Premature (Placenta Praevia case).				
	2. Premature („ „).				
	3. Premature („ „).				
	4. Twin-macerated.				
	5. Twin-macerated.				
	6. Macerated.				
	(ii.)				
	1. Monster.				
	2. Convulsions.				
	3. Convulsion.				
	4. Convulsions.				
	5. Convulsions.				
	6. Twin-Premature.				
	7. Twin-convulsions.				

The Grimsby and District Hospital (voluntary) acts as the General Hospital for the area.

SECTION C.
SANITARY
CIRCUMSTANCES.

Section C.—Sanitary Circumstances of the Area.

1. (1) Water Supply.

There has been no important extension, except for the laying of new mains to meet the demands of the expansion of the district.

The water supply has been satisfactory both as regards quality and quantity. The supply is by pipe from the Grimsby, Cleethorpes and District Joint Water Board.

Arrangements have been made for the supply to be controlled by monthly bacteriological examination and chemical analysis of samples taken from the source of supply.

The result of these examinations is supplied to the Medical Officer of Health. A report of a recent examination is as follows :

J. A. FOSTER, F.I.C., F.C.S.,
Public Analyst. The County Laboratories,
23 Chapel Lane,
Hull.

Certificate of Analysis.

Sample No. 4. (Cleethorpes)

has been examined with the following results.—

		Parts per million.
Free Ammonia	... ..	0.007
Albuminoid Ammonia	... ..	0.010
Chlorine	... ..	21.000
Nitrogen as Nitrates	... ..	2.750
Total Solids	... ..	316.000
Temporary Hardness (Clark's)	... ..	18.68°
Permanent do. do.	... ..	6.14°
Total do. do.	... ..	24.82°

Bacteriological Examination :—

Colonies per 1 m.l. on Nutrient Gelatine after 48 hours	2
Colonies per 1 m.l. on Nutrient Gelatine after 72 hours	12
B. Coli. in 100 m.l.	Nil.

(Signed) J. A. FOSTER, F.I.C., F.C.S.,
Borough Analyst.

Wells	{ New sunk	... ..	Nil
	{ Cleansed, repaired	... ..	Nil
	{ Closed as polluted	... ..	Nil
Public Supply	Area supplied :—Whole area except 50 houses in North Sea Lane and Humberstone Road district.		
	{ Percentage of houses supplied	... ..	99.38%
Any insufficiency and where		... ..	Nil

(2) Sewers.

During the year new sewers have been laid in Elliston Street Continuation.

The total length of new sewers laid in the district during the year was 110 feet. The system of sewage disposal is by discharge into the River Humber.

Drains examined, tested, exposed, etc.	96
Drains unstopped, repaired, trapped, etc.	105
Waste pipes, rain water pipes disconnected, repaired, etc. ...	167
New soil pipes or ventilating shafts fixed	61
Existing soil pipes or ventilating shafts repaired	9
Drains reconstructed	Nil
Drain Inspection Chambers constructed	67
„ „ „ repaired	110 ft

2 Rivers and Streams.

A small stream—The Buck Beck— which is polluted, discharges on the Foreshore.

3 (i) Closet Accommodation.

Number of houses with privy vaults in district	Nil
Number of houses with pail closets in district (excluding Beacholme Holiday Camp)	26
Number of pail closets repaired	Nil
Number of pail closets substituted for privy vaults	Nil
Number of houses with water closets in district	8,052
Number of water closets substituted for dry receptacles	Nil
Number of water closets repaired	48

Cesspools.

Cesspools rendered impervious	Nil
Cesspools emptied, cleansed, etc.	3
Cesspools abolished	Nil
New cesspools constructed	2

(ii) Public Cleansing.

Number of covered ashpits	20
Number of uncovered ashpits	Nil
Number of bins substituted for ashpits	Nil
Number of houses with ashpit accommodation... ..	22
Number of houses using bins	8,031

Is refuse removed by householders or Public Scavenger ?

—By Corporation's Staff.

How frequently is refuse removed from each house ?

—Weekly in winter and twice a week in summer in certain areas.

Number of complaints for non-removal	Nil
Method of final disposal—Separation and Destructor Plant, Tip, and on farm land.	
Are existing arrangements for refuse removal satisfactory ...	Yes

Cleansing Service.

The following particulars of the operations of the Cleansing Department relate to the year ended 31st March, 1939.

The service has been extended to collect from all new properties erected in 1938.

Refuse Collection.

Collections of house and trade refuse were made at the following properties :—

Dwelling Houses ..	...	...	...	8079
Business Premises	...	...	...	777
Public and other Buildings	...	...	...	25

Refuse was collected weekly from properties in the Borough and during the season 1,470 twice-weekly collections were made from a number of business premises.

The cleansing of pail closets was undertaken weekly at 22 houses in the Humberston area.

Special attention was paid to the Camping Ground in North Sea Lane during the season in extra collections of refuse and cleansing of pail closets.

Five motor vehicles owned by the Corporation were employed on refuse collection and seventeen men employed as collectors. Additional labour and transport were engaged as required.

5307 loads of the collected refuse were weighed at the Depot.

The loads and estimated weight of the refuse collected were :—

	Loads.	Tons.
By Motor vehicle	7059	7051
By Horse-drawn vehicle	154	111
	<hr/> 7213	<hr/> 7162

This was an estimated increase of 77 tons on the previous year.

Average weight per motor load 1 Ton.

Average weight per horse-drawn load 14½ Cwts.

Average weight collected per house (including business premises and public buildings) per annum 16 cwts.

Average number of houses (including business premises and public buildings) scavenged to the ton 64

Weight in cwts. per 1000 population per day ... 12.25

Trade Refuse.

A charge of threepence per bin is made for collection and disposal of this type of refuse and the sum of £17 16s. 3d. has been received in this respect during the year.

Trade refuse estimated at 244 tons was also brought by local tradesmen to the destructor. No charge was made for disposing of this refuse.

Garden Refuse.

A considerable quantity of grass and garden litter was collected along with house refuse and a large amount was also brought to the depôt. This class of refuse is increasing yearly.

Refuse Disposal.

The 7162 tons of collected house and trade refuse were disposed of as follows :

5316 tons to Disposal Works.
1805 tons to Humberston Land.
41 tons to Farmland.

188 loads of departmental refuse estimated at 48 tons were brought to the Destructor.

Ash and clinker estimated at 728 tons were disposed of in the Depôt Pit.

A four cell Destructor with a refuse Separation Plant is installed at the Disposal Works. Repairs and various works were carried out to maintain the plant in good state of repair during the year.

Seven men were employed on refuse disposal work and extra labour was engaged as required to cope with additional refuse.

Land Reclamation.

Refuse was taken to Humberston land from 1st April to the 27th May and from the 10th October to the 31st March, and was disposed of by Controlled Tipping. Since 1936 a bank has been formed by this means alongside the Marine Wall 495 yards in length, 15 yards in width and two yards in depth.

Salvage.

The receipts of the recovered materials and by-products, sold amounted to £137 2s. 1d. Particulars are set out below :

				Materials sold			Receipts		
				Tons	Cwts	Qrs	£	s.	d.
Baled scrap tins	...	...	...	57	15	0	40	10	4
Scrap Iron	...	...	...	8	3	0	10	5	4
Aluminium	...	...	...		3	0	5	0	1
Brass	...	...	...		6	2	3	17	5
Rags	...	...	...	3	9	1	17	5	10
Ash	...	...	...		138	loads	6	0	0
Clinker	...	...	...		132	loads	5	14	0
Bottles	...	...	...		588	doz.	16	11	10
Jars	...	...	...		1,322	doz.	22	0	8
Waste Cardboard	...	...	...	...		...	4	15	0
Miscellaneous	...	...	...	...		...	5	1	7
							£137	2	1

Costs.

House and trade refuse collection and disposal costs for the year ended 31st March, 1939, were as follows:—

Item	Particulars	Collection			Disposal			Total		
		£	s.	d.	£	s.	d.	£	s.	d.
A.	Gross Expenditure ...	3720	18	8	2208	13	2	5929	11	10
B.	Gross Income ...	17	6	3	137	2	1	154	18	4
C.	Nett Costs ...	3703	2	5	2071	11	1	5774	13	6
D.	Gross Expenditure per ton...	10	4	$\frac{1}{2}$	5	11		16	3	$\frac{1}{2}$
E.	Gross Income per ton ...			$\frac{1}{2}$		4	$\frac{1}{4}$			$4\frac{3}{4}$
F.	Nett Costs per ton ...	10	4		5	6	$\frac{3}{4}$	15	10	$\frac{3}{4}$
G.	Nett Costs per 1000 pop'lotion	128	17	$9\frac{1}{2}$	72	1	$8\frac{1}{4}$	200	19	$5\frac{3}{4}$
H.	Nett Costs per head ...	2	6	$\frac{3}{4}$	1	5	$\frac{1}{4}$	4	0	
I.	Nett Costs per 1000 houses	416	13	4	233	6	8	650	0	0
J.	Nett Costs per house ...	8	4		4	8		13	0	
K.	Nett Costs equivalent rate in the £			$6\frac{1}{2}$			$3\frac{1}{2}$			10
L.	Percentage of K to total rates in the £			4.06%			2.19%			6.25%

Disposal Costs.

At Destructor Works	...	...	...	6/7 per ton
At Humberston Land	...	...	...	2/6 „ „

Unit Costs.

	Refuse Collection		Refuse Disposal		Total	
Wages	8	6 per ton	3	$7\frac{1}{4}$ per ton	12	$11\frac{1}{4}$ per ton
Horse Transport		$\frac{3}{4}$ „ „		$\frac{1}{4}$ „ „	1	„ „
Materials & Repairs	1	0 „ „		$6\frac{1}{4}$ „ „	1	$6\frac{1}{4}$ „ „
Rates & Insurances		$9\frac{3}{4}$ „ „		3 „ „	1	$0\frac{3}{4}$ „ „
Loan Charges	0	0 „ „	1	$6\frac{1}{4}$ „ „	1	$6\frac{1}{4}$ „ „
	10	$4\frac{1}{2}$ „ „	5	11 „ „	16	$3\frac{1}{2}$ „ „
Income		$\frac{1}{2}$ „ „		$4\frac{1}{4}$ „ „		$4\frac{3}{4}$ „ „
Nett Cost	10	4 „ „	5	$6\frac{3}{4}$ „ „	15	$10\frac{3}{4}$ „ „

Refuse Receptacles.

The whole of the houses in the Borough are provided with dust bins with the exception of 22 houses having ash pit accommodation.

295 Dust Bins were provided by owners of properties in replacement of defective receptacles following informal or formal notices.

Gully Cleansing.

Three men were employed, part time, on this work. Street and Passage Gullies in the Borough were cleansed at regular intervals.

The gullies at the elementary schools were periodically cleansed as in previous years.

Number of Street Gullies ...	...	...	2,370
Number of Passage Gullies	...	...	887
Number of School Gullies ...	...	...	285

The work was carried out as follows :—

Street Gully Cleansings ...	...	...	23,552
Passage Gully Cleansings ...	...	...	9,160
School Gully Cleansings ...	...	...	763

475 tumbler-cart loads of refuse were removed from the Gullies cleansed.

The costs of the work for the year were :—

£213 for Street Gully Cleansing.

£106 for Passage Gully Cleansing.

£12 for School Gully Cleansing.

The cost per 1,000 street gullies cleansed was £9 7s. 6d., the cost per 1,000 population £7 8s. 3½d., the cost equivalent rate in the £— '36d., and the cost per street gully cleansed 2½d.

Passage Cleansing.

Passages in the Borough total 469 and the cleansing is regularly carried out. Two men are employed part-time as passage sweepers and 569 hand cart loads of refuse were removed. During the Season, passages in the centre of the town received attention twice weekly in consequence of the large amount of litter.

The cost of this work for the year was £126 4s. 7d.

Public Conveniences.

The Public Conveniences of the Corporation total 29.

Depot Weighbridge.

The Corporation has a 20 ton weighbridge at the Poplar Road Depot. This is for Public and Departmental use. The duties in connection with the weigh-office are undertaken in conjunction with the Cleansing Department.

The receipts for Public Weighings amounted to £10 3s. 9d.

The Weighbridge was used on 7,049 occasions, as follows :—

Weighings for Cleansing Department....	...	5,335
Weighings for Highways and other Departments	1,375	
Public Weighings	... ..	339

Sanitary Inspection of the Area.

Movable Dwellings, Tents, Vans, etc.

Number inspected during the year	...	...	202
Number of breaches of bye-laws	...	...	Nil
Number of nuisances therefrom abated	...	...	Nil
Number removed from the district	...	...	Nil
Vans in district at end of year	...	...	6
Vans in district at end of year in occupation	...	...	2

Offensive Trades.

Number of premises in the District :—41.

(a) Fried Fish Shops	...	...	38
(b) Fat Melters	...	...	2
(c) Rabbit Skin Drier	...	...	1
Contraventions	...	...	Nil
Contraventions remedied	...	...	Nil
Number of inspections	...	...	104

There are no Bye-laws in operation.

Closet Accommodation.

No conversions were carried out during the year.

FACTORIES, WORKSHOPS AND WORKPLACES.

1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises (1)	Number of		
	Inspections (2)	Written Notices (3)	Prosecutions (4)
FACTORIES (Including Factory Laundries)	73	30	0
WORKSHOPS (Including Workshop Laundries)	69	62	0
WORKPLACES (Other than outworkers' premises)	11	2	0
Total	153	94	0

2. DEFECTS FOUND.

Particulars (1)	Number of Defects			No. of Prosecutions (5)
	Found (2)	Remedied (3)	Referred to H.M. Inspector (4)	
<i>Nuisances under the Public Health Acts</i>				
Want of Cleanliness	2	1	...	...
Want of Ventilation ... ..	...	1	...	...
Overcrowding ... ..	...	...	...	...
Want of Drainage of Floors ... ..	...	...	...	...
Other Nuisances	2	1	...	...
Sanitary { Insufficient	2	2	...	...
Accommo- { Unsuitable or Defective	...	...	...	...
	Not separate for Sexes	...	...	...
<i>Offences under the Factory and Workshop Acts</i>				
Illegal occupation of underground				
Bakehouses (S.101) ... ..	...	...	...	...
Other Offences				
(Excluding offences relating to outwork)	...	...	...	...
Total	6	5	0	0

Bakehouses.

Number in district... ..	...	...	42
Number of underground bakehouses	...	...	Nil
Number of inspections ... ..	...	...	177
Contraventions of Factory Acts	...	...	1
Defects remedied ... ..	...	...	3

Camping Sites.

There is one Camping Site in respect of which a Licence has been granted by the Local Authority. The area available is 15.39 acres. The estimated maximum number of campers resident in the area at one time during the summer season, 1938, was 2,000 campers, the number of tents or vans in use at that period being approximately 500.

Smoke Abatement.

No action has been taken in this matter.

Swimming Baths and Pools.

The Corporation possess one Swimming Pool. This large pool of 2,000,000 gallons capacity attracts a large number of bathers during the season May—September. A continuous filtration plant is installed and chlorination of the water is employed for purification purposes. The purity of the water is controlled by sampling and examination by an independent analyst.

Eradication of Bed Bugs.

One Council house and 12 other houses were found to be infested with bed bugs during the year and disinfestation by fumigation and spraying was carried out in each case.

In many instances the owner or occupier was advised to strip and carefully remove and burn all wall paper. All removable woodwork such as mouldings, architraves and skirtings were eased or entirely removed and the room thoroughly sprayed prior to fumigation. The infestations were generally of a mild character but upon subsequent re-inspections it was deemed advisable to again carry out fumigation and spraying in some of the houses.

Investigations were made regarding the possible infestation of furniture and other belongings of incoming tenants to Council houses and in no case was it found necessary to carry out disinfestation.

The actual work of disinfestation is carried out by the Health Department but the removal and replacement of all woodwork, etc., is carried out by the owner or occupier.

Several of the dwelling houses which have been subjected to fumigation are frequently re-visited and the owners and occupiers advised thereon.

4. School Medical Services.

Report by the Medical Officer of Health who acts as Assistant School Medical Officer to the Lindsey County Council.

I am indebted to the County Medical Officer of Health for permission to include the following details.

The hygienic conditions of the schools in the Borough are satisfactory,

The consumption of milk in schools continues to increase with the help of the teachers who recommend certain children for a supply of free milk.

A marked improvement in the general condition of children in receipt of milk daily is seen practically without exception.

There is no Open Air School and there are no Nursery Schools or Nursery Classes for children under 5 years of age in the Borough.

The number of elementary and secondary school children inspected during the year is shown in the following table :

A. ROUTINE SCHOOL MEDICAL INSPECTION (exclusive of special and supervisory examinations).

	Inspected		Found to require treatment.	
	Elementary	Secondary	Elementary	Secondary
Entrants	136	71	9	24
Intermediates	200	—	28	—
Leavers	159	39	13	10
Total	495	110	50	34

B. Defects found in the course of Medical Inspection.

DEFECT.	ELEMENTARY Routine Inspections		SECONDARY Routine Inspections	
	Requiring Treatment	Requiring observation but not Treatment	Requiring Treatment	Requiring observation but not Treatment
SKIN.				
Ringworm { Scalp	1			
{ Body				
Scabies 				
Impetigo 				
Other Diseases (Non-tubercular)			2	
EYE.				
Blepharitis		2	1	2
Conjunctivitis				
Keratitis				
Corneal Opacities 				
Defective Vision (excluding Squint)	24	6	7	7
Squint	2	3		
Other conditions				
EAR.				
Defective Hearing		2	2	4
Otitis Media	1			
Other Ear Diseases	1	2	6	
NOSE AND THROAT.				
Chronic Tonsilitis only.... ...	17	22	4	5
Adenoids only		2		
Chronic Tonsilitis and Adenoids...		1	1	
Other conditions				
ENLARGED CERVICAL GLAND. (Non-tubercular).		3		3
DEFECTIVE SPEECH.				
HEART AND CIRCULATION.				
Heart Disease—				
Organic			5	
Functional	4		7	2
Anæmia			7	1
LUNGS.				
Bronchitis	1	3		
Other Non-tubercular Diseases ...				
TUBERCULOSIS.				
Pulmonary—				
Definite				
Suspected... 				
Non-pulmonary—				
Glands				
Other Bones and Joints ...				
Skin				
Other Forms				
NERVOUS SYSTEM.				
Epilepsy				
Chorea				
Other conditions				
DEFORMITIES.				
Rickets... 				
Spinal Curvature				
Other Forms				3
OTHER DEFECTS AND DISEASES. (Exclud- ing Uncleanliness and Dental Diseases)		2		1
TOTAL NUMBER OF DEFECTS	51	48	42	28

C. Classification of Nutrition.

All scholars examined are now classified in 4 groups :—Ex.—Excellent, N.—Normal, S.N.—Slightly Subnormal and B.—Bad.

ELEMENTARY SCHOOLS.

	Ex.	N.	S.N.	B.
Entrants	7	107	22	—
Second age group	27	152	21	—
Third age group	23	127	9	—
Total (prescribed groups)	57	386	52	—

SECONDARY SCHOOLS.

	Ex.	N.	S.N.	B.
Entrants	13	51	6	1
Second Age Group	—	—	—	—
Third Age Group	14	23	2	—
Total (prescribed groups)	27	74	8	1

SECTION D.
HOUSING.

Section D.—HOUSING.

1. Inspection of Dwelling Houses during the year—

(1). (a)	Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	751
	(b) Number of inspections made for the purpose...	3549
(2). (a)	Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925	717
	(b) Number of inspections made for the purpose ...	2862
(3).	Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	Nil
(4)	Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation	398

2. Remedy of Defects during the year without serving of formal notices—

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers	376
--	-----

3. Action under Statutory Powers during the year—

(a)	Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936.	
(1)	Number of dwelling-houses in respect of which notices were served requiring repairs	9
(2)	Number of dwelling-houses which were rendered fit after service of formal notices—	
	(a) By Owners	11
	(b) By Local Authority in default of Owners ...	Nil
(b)	Proceedings under the Public Health Acts.	
(1)	Number of dwelling houses in respect of which notices were served requiring defects to be remedied ...	7
(2)	Number of dwelling houses in which defects were remedied after service of formal notices.—	
	(a) By Owners	10
	(b) By Local Authority in default of Owners ...	Nil

(c) Proceedings under Sections 11 and 13 of the Housing Act, 1936.

(1) Number of dwelling houses in respect of which Demolition Orders were made	...	...	Nil
(2) Number of dwelling-houses demolished in pursuance of Demolition Orders	...	...	Nil

(d) Proceedings under Section 12 of the Housing Act, 1936.

(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made	...	...	Nil
(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit	...	...	Nil

Nuisances.

Total number of nuisances during the year	...	...	239
(1) Abated as result of informal action by Sanitary Inspectors	...	...	287
(2) Reported to Council	...	...	93
Statutory Notices issued	...	...	8

Details of Nuisances Abated.

			After Informal Intimation.	After Statutory Notice.
Overcrowding	...	...	1	—
Smoke	...	...	—	—
Accumulation of refuse and manure	...	...	4	—
Foul ditches, ponds & stagnant water	...	...	5	—
Foul pigs and other animals	...	...	1	—
Dampness	...	...	34	3
Yards, repaved or repaired	...	...	118	18
Other nuisances	...	...	124	—

4. Housing Act, 1936.—Part IV. Overcrowding.

(a).—(1) Number of dwellings overcrowded at end of year	...	4
(2) Number of families dwelling therein	...	4
(3) Number of persons dwelling therein	...	35
(b).—Number of new cases of overcrowding reported during the year	Nil	
(c).—(1) Number of cases of overcrowding relieved during the year	1	
(2) Number of persons concerned in such cases	...	11
(d).—Particulars of any cases in which dwelling-houses have again become overcrowded after the Local Authority have taken steps for the abatement of overcrowding	...	Nil

SECTION E.
INSPECTION
AND
SUPERVISION OF FOOD.

Section E. Inspection and Supervision of Food.

(a) Milk Supply.

COWHOUSES AND COWSHEDS.

Number on register	...	...	...	5
Number of inspections	...	...	...	30
Contraventions of Regulations	...	...	...	Nil
Contraventions remedied	...	...	...	Nil
Number of milch cows in district		...	...	91

DAIRIES AND MILKSHOPS.

Number on register	...	...	...	32
Number of inspections	...	...	...	62
Contraventions of Regulations	...	...	...	5
Contraventions remedied	...	...	...	5
Any disease attributed to milk during the year			...	Nil

The Food and Drugs Act and Milk and Cream Regulations are administered by the County Police.

Bacteriological Examination of Milk Supplies.

Date	No. of sample	Kind of Milk	B. Coli in $\frac{1}{100}$ m.l.	Methylene Blue decolourised in	Remarks
14 10 38	1	Accredited	Absent	4½ hours	Satisfactory
14 10 38	2	Accredited	Absent	3 „	Unsatisfact'ry
14 10 38	3	Accredited	Absent	4½ „	Satisfactory
4 11 38	4	Accredited	Absent	5½ „	Satisfactory
4 11 38	5	Accredited	Absent	5½ „	Satisfactory
4 11 38	6	Accredited	Absent	5½ „	Satisfactory
4 11 38	7	Accredited	Absent	5½ „	Satisfactory
24 11 38	8	Accredited	Absent	5½ „	Satisfactory

(b) Meat.

SLAUGHTERHOUSES.

Number on register, December, 1938	...	...	7
Number of inspections	...	...	1044
Contraventions of bye-laws	...	...	4
Defects remedied	...	...	4
Breaches of P. H. (Meat) Regulations, 1924		...	Nil

	Cattle, exclud- ing Cows	Cows.	Calves.	Sheep & Lambs.	Pigs.
Number killed (if known)	—	—	—	—	—
Number Inspected	279	41	9	1633	697
ALL DISEASES, EXCEPT TUBERCULOSIS Whole Carcasses condemned	—	—	—	1	—
Carcases of which some part or organ was condemned	10	2	—	1	8
Percentage of the number In- spected affected with Dis- ease other than Tuberculosis	3.58%	4.88%	—	.12%	1.15%
TUBERCULOSIS ONLY Whole carcasses condemned	—	1	—	—	—
Carcases of which some part or organ was condemned	50	5	—	—	43
Percentage of the number inspected affected with Tu- berculosis	17.92%	14.63%	—	—	6.11%

SECTION F.

PREVALENCE OF, AND CONTROL
OVER
INFECTIOUS AND OTHER DISEASES.

Section F.—Prevalence of, and Control over Infectious and other Diseases.

(1) Infectious Disease.

The prevalence of Infectious Disease increased during 1938, the increase being due to two mild outbreaks of Chicken Pox.

Scarlet Fever :

This disease continues to be of a mild nature unaccompanied by complications. Forty-one cases occurred, of which fourteen were admitted to hospital.

Diphtheria :

Thirty-one cases of Diphtheria occurred during the year all of which were of the "Mitis" type.

Serules of Diphtheria Antitoxin are kept at the Health Office and supplied free on demand to Private Medical Practitioners.

Sterile throat and nose swabs are also supplied free and 441 have been sent to the Health Office for culture and bacteriological examination.

Immunisation against this disease is available but the number availing themselves of this prophylactic measure is very small.

Small Pox.

No cases occurred in 1938.

Ophthalmia Neonatorum.

Seven cases were notified. The result of treatment in each case was satisfactory.

Puerperal Pyrexia.

Four cases notified, two of which were admitted to hospital. In respect of two cases facilities for treatment were available and removal to hospital was not required.

Dysentery.

No cases occurred in 1938.

Erysipelas.

Eighteen cases of Erysipelas occurred distributed in the following age groups :—

10—15.	20—35.	35—45.	45—65.	65 and Over
1	2	3	9	3

One case was admitted to hospital.

Pneumonia.

There has been a decrease in the incidence of pneumonia this year. Twenty cases were notified.

Measles.

No cases of Measles have been admitted to Hospital this year. Notification of the occurrence of this disease is received from the schools. Advantage is taken of this information to provide appropriate measures in each outbreak. Measles serum is not provided for prophylaxis or attenuation.

Influenza.

There has been no outbreak of this disease in the Borough in 1938.

Chicken Pox.

Two mild outbreaks of this disease occurred—one in the month of February and another in July. No deaths occurred and there was an absence of any serious complications.

Notifiable Diseases (other than Tuberculosis) during the year 1938.

DISEASE	Total Cases Notified	Cases Admitted To Hospital	TOTAL DEATHS
SMALL POX ...	—	—	—
SCARLET FEVER ...	41	14	—
DIPHThERIA ...	31	27	1
PNEUMONIA ...	20	—	13
ACUTE POLIOMYELITIS	5	—	—
OPHTHALMIA NEONATORUM	7	—	—
PUERPERAL PYREXIA	4	2	—
ERYSIPELAS ...	18	1	—
CHICKEN POX ...	149	—	—
TOTALS	275	44	14

Cases of INFECTIOUS DISEASE in age groups.

Notifiable Disease	Under 1 year	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 65	65 and over	Totals
Scarlet Fever	1	—	4	3	1	19	5	4	3	1	—	—	41
Diphtheria	1	—	3	—	1	14	4	2	5	1	—	—	31
Pneumonia	2	1	—	—	—	3	—	3	—	2	7	2	20
Acute Poliomyelitis ...	—	1	1	—	—	2	1	—	—	—	—	—	5
Ophthal'ia Neonator'm	7	—	—	—	—	—	—	—	—	—	—	—	7
Puerperal Pyrexia ...	—	—	—	—	—	—	—	—	4	—	—	—	4
Erysipelas	—	—	—	—	—	—	1	—	2	3	9	3	18
Chicken Pox	2	10	10	15	7	87	11	6	1	—	—	—	149
Totals	13	12	18	18	9	125	22	15	15	7	16	5	275

HOSPITAL TREATMENT.

Cases removed to Isolation Hospital in their respective Wards.

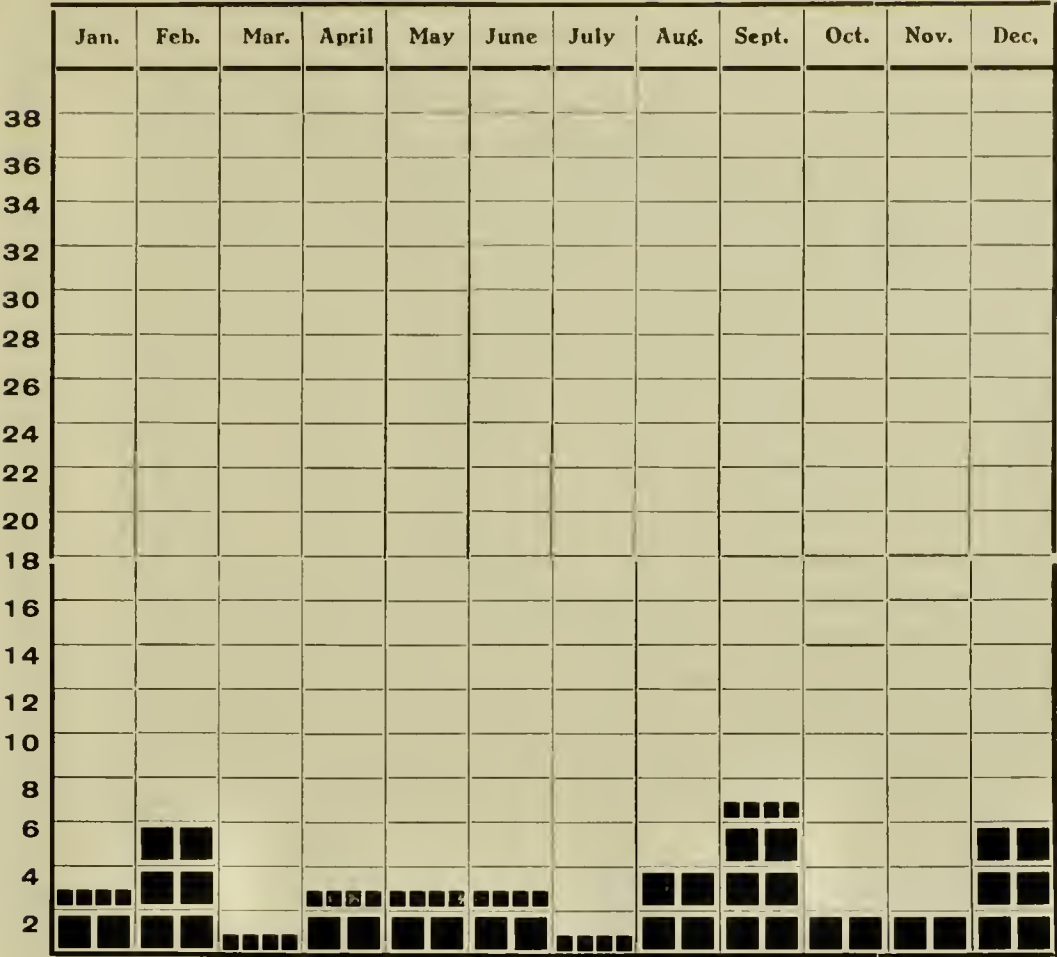
NOTIFIABLE DISEASES.	North	Sidney	Central	Alex'dra	South	Totals.
Scarlet Fever	4	3	1	—	6	14
Diphtheria	3	2	21	1	—	27
Acute Poliomyelitis ...	1	2	2	—	—	5
Puerperal Pyrexia ...	—	—	2	—	—	2
Erysipelas	—	—	1	—	—	1
TOTALS	8	7	27	1	6	49

Cases removed to Isolation Hospital in their respective months.

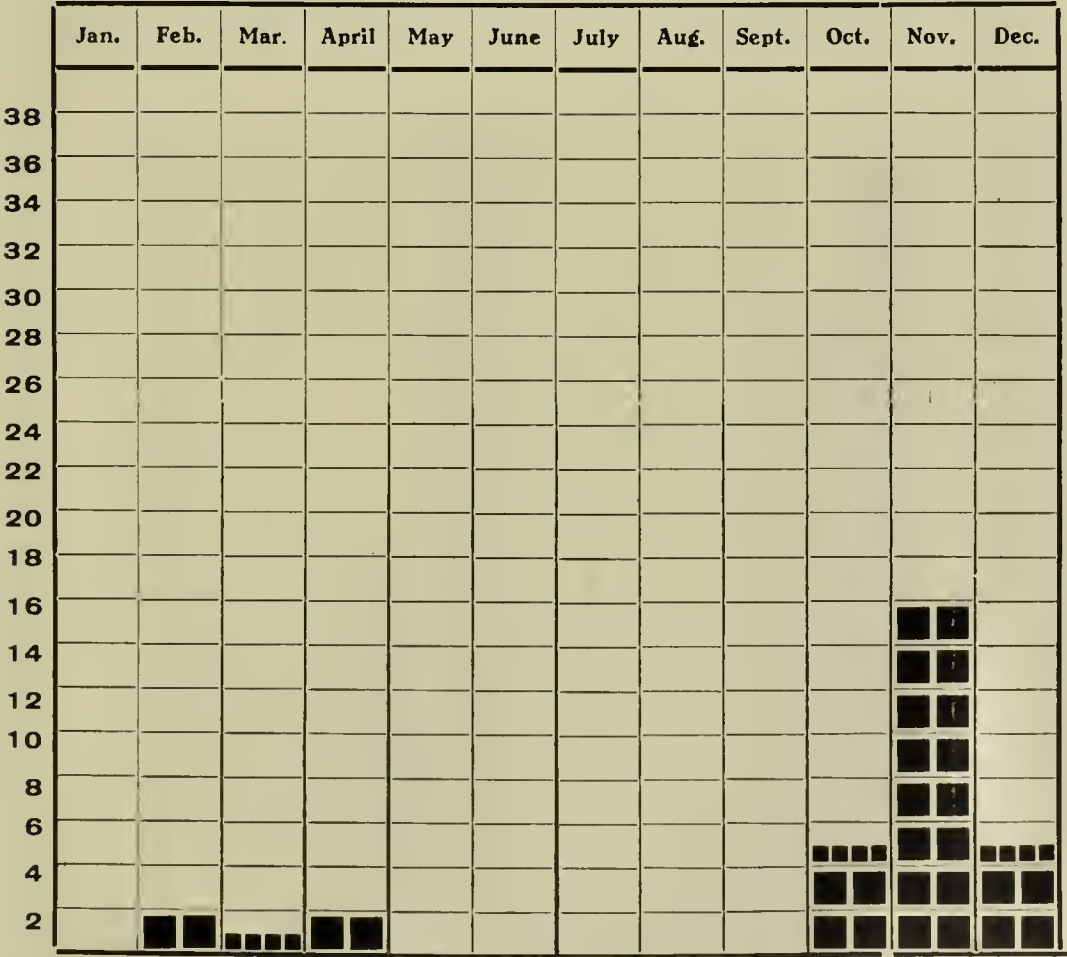
Notifiable Diseases.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.
Scarlet Fever ...	1	—	1	—	1	1	—	2	—	1	2	5	14
Diphtheria ...	—	2	1	2	—	—	—	—	—	4	15	3	27
Ac'te Poliomyelitis	—	—	—	—	—	—	—	5	—	—	—	—	5
Puerperal Pyrexia	—	—	—	—	—	1	—	1	—	—	—	—	2
Erysipelas ...	—	—	—	—	—	—	—	—	—	—	1	—	1
TOTALS	1	2	2	2	1	2	—	8	—	5	18	8	49

INCIDENCE of Principal NOTIFIABLE DISEASES in 1938.

SCARLET FEVER.



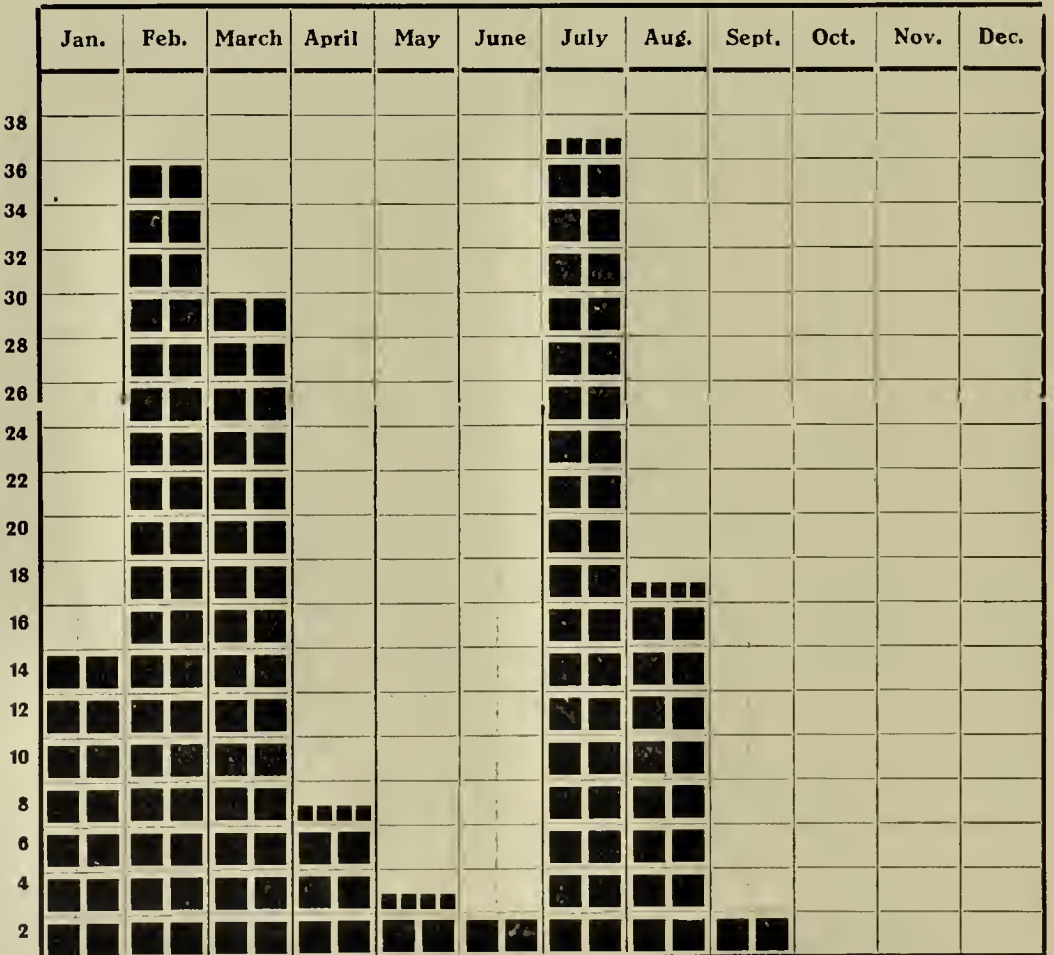
DIPHTHERIA.



PNEUMONIA.



CHICKEN POX.



2. **Cancer.**—The following figures relating to the deaths from Cancer in the Borough are appended:—

CANCER DEATHS.

Age	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	Totals
Male	—	1	—	1	2	6	8	1	19
Female	—	—	1	4	7	5	6	—	23
Totals	—	1	1	5	9	11	14	1	42

Site: —

Stomach	...	9	Rectum	...	4	Breast	...	4
Bowel		1	Uterus	...	2	Liver	...	3
Recto Sigmoid			Cervix	...	4	Spine	...	1
Junction	...	1	Bladder	...	1	Ventricles	...	2
Colon	...	6	Prostate	...	3	Femur	...	1

3. Prevention of Blindness.

The Lindsey County Council provides for the medical treatment of necessitous blind persons through their Public Health Committee. This includes specialist treatment in connection with blindness or the prevention of blindness.

Other services are provided through the Lindsey Society for the Blind in connection with the education, training, employment and general welfare of blind persons.

4. Tuberculosis.

NOTIFICATION OF TUBERCULOSIS.

	Pulmonary		Non-pulmonary		Total	
	Male	Female	Male	Female	Male	Female
January ...	2	—	—	—	2	—
February ...	—	—	—	—	—	—
March ...	1	2	—	1	1	3
April ...	1	—	1	—	2	—
May ...	1	—	4	—	5	—
June ...	—	2	—	—	—	2
July ...	—	—	2	1	2	1
August ...	2	1	—	—	2	1
September ...	—	—	1	—	1	—
October ...	—	1	—	1	—	2
November ...	—	—	1	—	1	—
December ...	1	—	—	1	1	1
TOTALS	8	6	9	4	17	10

No action has been required under the Public Health (Prevention of Tuberculosis) Regulations, 1955, (relating to persons employed in the milk trade) nor under Section 172 of the Public Health Act, 1936. Ratio of non-notified Tuberculosis deaths to total Tuberculosis deaths is 1.3. The facilities available at the Tuberculosis Dispensary are utilised to the fullest extent by private Medical Practitioners in sending cases of suspected Tuberculosis for diagnosis.

TUBERCULOSIS.

NOTIFICATION AND DEATHS.

New Cases, 1938.

Deaths, 1938.

Age Periods	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	Males	Females	Males	Females	Males	Females	Males	Females
Under 1 year			1					
1 to 2 years			1					
2 to 3 "								
3 to 4 "			1					
4 to 5 "								
5 to 10 "			1	1				
10 to 15 "								
15 to 20 "	1	2	4			1	1	
20 to 25 "					1	1		1
25 to 35 "	2	2	1			2		1
35 to 45 "	4			1	1	1		
45 to 55 "	1			2	1	2		
55 to 65 "								
65 years & over		2				2		
Totals	8	6	9	4	5	7	1	2

Tuberculosis Deaths according to Occupation.

Males	Pulmonary	Non-Pulmonary
Chauffeur	1	—
Horticulturist	1	—
Trawler Skipper	1	—
Fisherman ...	—	1
Dredger Master	1	—
Bakers Assistant	1	—
	<u>5</u>	<u>1</u>
Females		
Secretary ...	1	—
No occupation ...	1	—
Shop Assistant ...	1	—
Household Duties	3	2
Domestic Servant	1	—
	<u>7</u>	<u>2</u>

CLEETHORPES TUBERCULOSIS DISPENSARY.

This Dispensary is conducted by your Medical Officer in his capacity of Assistant County Tuberculosis Officer and serves an area comprising the Borough of Cleethorpes, the Rural District of Grimsby and part of the Rural District of Louth.

During the year 1938, 67 new cases attended the Dispensary of which 26 were definitely tuberculous, 22 not tuberculous and in 19 the diagnosis was not completed. Eleven cases were written off as "recovered," 27 others were removed as having transferred to other areas or having been lost sight of, leaving 181 cases remaining on the Dispensary register at the end of the year.

The total individual attendances numbered 496.

The work of the dispensary is summarised in the following table.

RETURN FOR THE YEAR 1938.

(A) Return showing the work of the Dispensary, or Dispensaries.

DIAGNOSIS	PULMONARY				NON-PULMONARY				TOTAL				GRAND TOTAL		
	Adults		Children		Adults		Children		Adults		Children				
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.			
A.—NEW CASES examined during the year (excluding contacts :—															
(a) Definitely tuberculous	5	4	—	—	5	5	6	1	10	9	6	1	26	} 67	
(b) Diagnosis not completed	7	2	2	2	1	1	1	1	8	3	3	3	19		
(c) Non-tuberculous	3	5	6	4	1	1	—	2	4	6	6	6	21		
B.—CONTACTS examined during the year :—															
(a) Definitely tuberculous									—	—	—	—		} 25	
(b) Diagnosis not completed	—	—		—	—	—	—	—	—	—	—	2	2		
(c) Non-tuberculous	—	—		—	—	—	—	—	3	7	6	7	23		
C.—CASES written off the Dispensary Register as :—															
(a) Recovered	1	—	—	1	1	1	4	3	2	4	3	2	11	} 56	
(b) Non-tuberculous (including any such cases previously diagnosed and entered on the Dispensary Register as tuberculous).	3	5	6	4	1	1	—	2	4	6	6	6	45		
	—	—	—	—	—	—	—	—	3	7	6	7			
D.—NUMBER OF CASES on Dispensary Register on December 31st :—															
(a) Definitely tuberculous	41	40	9	9	12	14	20	15	53	54	29	24	160	} 181	
(b) Diagnosis not completed	7	2	2	4	1	1	1	3	8	3	3	7	21		
1. Number of cases on Dispensary Register on January 1st				178				2. Number of cases transferred from other areas and cases returned after discharge under Head 3 in previous years				9			
3. Number of cases transferred to other areas, cases not desiring further assistance under the scheme, and cases "lost sight of"				27				4. Cases written off during the year as Dead (all causes)				15			
5. Number of attendances at the Dispensary (including Contacts)				496				6. Number of Insured Persons under Domiciliary Treatment on the 31st December				2			
7. Number of "T.B. plus" cases on dispensary register on December 31st									45						

Tuberculosis After-Care Committee.

An occupational centre with a workshop in St. Hugh's Avenue is maintained by this voluntary Committee; in addition this Committee makes grants toward the supply of extra nourishment in necessitous cases.

An annual grant is made by the Lindsey County Council to augment the funds available for these purposes.

The work done by the association is of an invaluable nature, the workshop providing a means to utilise the lessened working capabilities of selected cases.

There is a ready sale for their productions and the business done has shown a steady increase during 1938.

INFECTIOUS DISEASE.

Report of Bacteriological Examinations carried out during the year, 1938.

				Total number of Examinations.
(1) Cleethorpes Laboratory.				
Diphtheria	Diagnosis	{ Positive	81	
		{ Negative	326	
	Freedom	{ Positive	9	
		{ Negative	25	
Sputum for Tuberculosis		{ Positive	15	500
		{ Negative	44	
(2) County Laboratory.				
Diphtheria		{ Positive	Nil	
		{ Negative	2	
Sputum for Tuberculosis		{ Positive	1	
		{ Negative	7	
Haemolytic Streptococci		{ Positive	1	106
		{ Negative	95	
Total Bacteriological Examinations for Diagnostic Purposes				572

REPORT
ON THE
METEOROLOGICAL CONDITIONS
PREVAILING AT CLEETHORPES
DURING 1938.

L. W. PYE. A.M. Inst. C.E.,
Borough Engineer and Surveyor.

Report on the Meteorological Conditions prevailing at Cleethorpes during 1938.

LEONARD W. PYE, A.M. Inst. C.E.,
Borough Engineer and Surveyor.

Although the weather conditions during 1938 showed a decided improvement on those of the previous year, and the figures generally are slightly better than the average, no records whatever were broken.

SUNSHINE.

During the year there were 1517.7 hours of bright sunshine, being an increase of 233 hours over the previous year.

The yearly average since 1921 is 1473 hours. Thus, the total sunshine during 1938 was 45 hours above the average. The sunniest months were May and June, when 197.6 and 195.6 hours of sunshine were recorded respectively. The next best months were July and August with 177.5 and 164.2 hours respectively. It is interesting to note here that the most sunshine ever recorded at Cleethorpes in one month was 281.3 hours in July 1934. April was the only month with bright sunshine daily, and December had the greatest number of sunless days, viz. 19 days.

RAINFALL.

Throughout the whole of the year there was never a continuous period exceeding 7 days on which no rainfall was recorded. The driest months were March and April with 0.31 and 0.20 inches of rain falling on four and five days respectively. The wettest month, as in 1937, was December, with 3.32 inches of rain, August being next with 2.99 inches. The December total was distributed over 22 days, and the August total over 11 days. The greatest rainfall in any one day was on 28th August when 1.66 inches of rain were recorded. Two-thirds of the total rainfall fell in the period from July to December. In spite of the summer rain the total for the year of 21.28 inches is 2.41 inches below the average of 23.69 inches taken over the last 29 years.

TEMPERATURE OF THE AIR.

No great extremes of temperature were recorded during 1938, but again there is a slight increase on the averages. The average maximum shade temperature of 56.7° F. shows an increase on 54.9° F. for 1937,

53.9° F. for 1936, and 55.4° F. for 1935. Although this is an increase it is worthy of note that those gains were made largely in the winter periods of last year and that the summer averages are lower than those for the years 1935-6-7. Again, the average minimum shade temperature of 44.8° F. shows an increase on 42.9° F. for 1937, 43.2° F. for 1936, and 43.6° F. for 1935, and again the increase was largely on the winter months. The lowest temperature recorded with the Terrestrial Radiation Thermometer (Grass Minimum) was 24° F. on the 20th December. The lowest temperature recorded by this Thermometer in 1937 was 18° F. on the 11th March.

MISCELLANEOUS PHENOMENA.

A remarkably fine display of Aurora was seen on the night of 25th January, which is believed to have surpassed any previously witnessed in this district.

During the year, frost was recorded on 21 days and snow fell on 7 days. Thunder was heard on 8 days, and visibility was restricted to less than 1,100 yards on 8 dates.

The Cleethorpes Meteorological Station is officially recognised by the Meteorological Office as an auxilliary Climatological Station and a First Class Health Resort Station. All the instruments in use are annually inspected and verified by Air Ministry Officials, and reports are telegraphed once daily in winter and twice daily in summer to the Meteorological Office for inclusion in the Daily Weather Report issued by the Air Ministry. The Station is under the control of the Council's Surveyor (Leonard W. Pye, A.M. Inst. C.E.) and the Observer during 1938 was D. S. Benton, who is a member of the Surveyor's Staff.

A summarised statement is attached to this Report.

**Summary of Meteorological Observations taken at
Cleethorpes for year 1938.**

1938	Average Temperature		Total Sunshine in hours	No. of Suniess Days	Total Rainfall Inches	Days with Rain
	Max.	Min.				
January ...	46.7	36.8	52.8	6	1.63	20
February ...	46.3	37.4	66.4	7	0.81	8
March ...	58.1	41.0	156.7	1	0.31	4
April ...	52.0	40.0	156.4	—	0.20	5
May ...	58.9	44.7	197.6	3	1.99	12
June ...	66.5	51.1	195.6	1	1.27	11
July ...	67.1	52.4	177.5	2	2.20	17
August ...	66.2	54.3	164.2	2	2.99	11
September ...	63.7	51.8	108.2	4	1.79	16
October ...	57.4	44.2	113.9	1	2.46	15
November ...	53.7	42.1	88.1	4	2.31	14
December ...	43.5	35.0	40.3	19	3.32	22
Total ...	680.1	537.8	1517.7	50	21.28	155
Average ...	56.7	44.8	126.5		1.77	

Greatest fall of rain in a day (Most ever recorded since 1910	1.66 ins. on 28th August, 1938. 2.49 ins. on 24th June, 1911).
Greatest amount of sunshine in a day (Most ever recorded since 1910	13.9 hours on 21st May, 1938. 15.7 hours on 17th June, 1932)
Highest shade temperature recorded (Max. ever recorded since 1910	79° F. on 18th June and 31st July, 1938. 90° F. on 28th August, 1933).
Lowest shade temperature recorded (Lowest ever recorded since 1910	26° F. on 20th December, 1938. 9° F. on 16th February, 1929)
Lowest ground temperature recorded (Lowest ever recorded since 1932	24° F. on 20th December, 1938. 11° F. on 23rd January 1933).

